

Patent Abstracts of Japan

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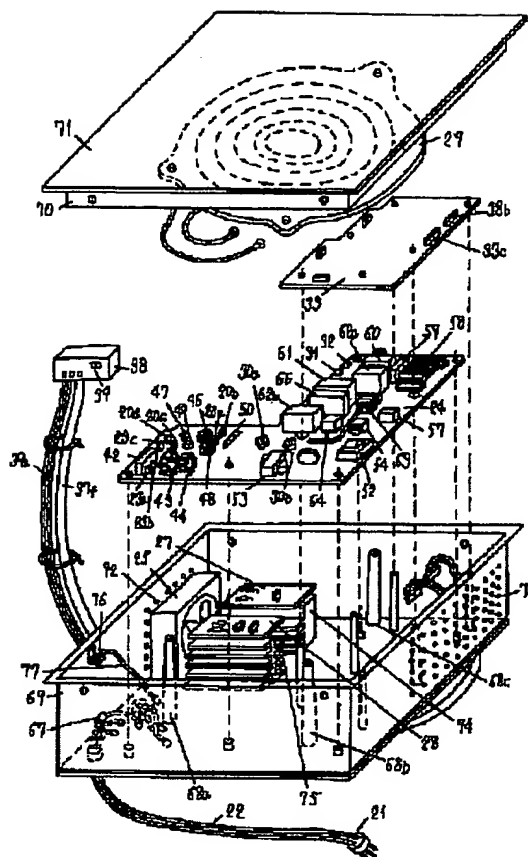
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TITLE : INDUCTION HEATING COOKER



ABSTRACT : PURPOSE: To simplify wiring for inverter parts, and prevent a noise from leaking outside by providing a low frequency AC filter section, a rectifier and a low frequency DC filter section in order on a printed circuit board along the peripheral section of a high frequency circuit section.

CONSTITUTION: An inverter substrate as a printed circuit board is so laid as to surround the cooling fins 74 and 75 of semiconductor switching elements. A high frequency circuit section such as a high frequency power capacitor 61, and oscillation capacitors 62a and 62b, are so laid on the inverter substrate as to be located near the fins 74 and 75. In addition, a low frequency AC filter section such as a capacitor 42, a common mode choke coils 43 and 44, and a filter capacitor 59, and a low frequency DC filter section such as a full wave rectifier 58, a filter capacitor 59 and a choke coil 60 are laid along the periphery of the high frequency circuit section. According to this construction, parts can be packaged at high density, and a wiring work can be made simple concurrently. Also, noise emission from the high frequency section and noise conduction to a commercial power supply can be restrained.

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